Appl. No. 10/605,416
Amdt. dated February 26, 2006
Reply to Office action of November 30, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

5 Listing of Claims:

Claims 1-19 (canceled)

Claim 20 (currently amended): A liquid crystal display comprising:

a lower substrate;

an upper substrate positioned parallel with the lower substrate; and

a plurality of pixel units, each of the pixel units including an upper transparent electrode, a liquid crystal layer, a lower transparent electrode, and a color filter formed on the upper substrate and above the lower substrate;

wherein a surface of each color filter has a plurality of <u>curved</u> convex structures, and the upper transparent electrode directly contacts and covers the <u>curved</u> convex structures on the surface of each of the color filters.

Claim 21 (canceled)

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- 20 Claim 22 (currently amended): The liquid crystal display of claim 20 wherein the surface of each color filter which has the plurality of <u>curved</u> convex structures is able to scatter light.
- Claim 23 (currently amended): The liquid crystal display of claim 20 wherein a distribution density of the <u>curved</u> convex structures is used to regulate brightness and a color deepness of the liquid crystal display.

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Claim 24 (previously presented): The liquid crystal display of claim 20 wherein each of the pixel units respectively comprises a reflection layer positioned between the color filter and the lower substrate.

5 Claim 25 (previously presented): The liquid crystal display of claim 24 being a reflective liquid crystal display.

Claim 26 (previously presented): The liquid crystal display of claim 24 wherein each of the reflection layers includes an opening.

Claim 27 (previously presented): The liquid crystal display of claim 26 being a semi-transmissive and semi-reflective liquid crystal display.

Claim 28 (previously presented): The liquid crystal display of claim 20 further comprising a plurality of thin film transistors for respectively controlling each of the pixel units.

Claim 29 (currently amended): The liquid crystal display of claim 28 wherein the thin film transistors [[is]] are formed on the lower substrate and below the upper substrate.

Claim 30 (canceled)

Claim 31 (currently amended): A liquid crystal display comprising:

- a lower substrate;
- an upper substrate positioned parallel with the lower substrate; and
 - a plurality of pixel units, each of the pixel units including an upper transparent electrode, a liquid crystal layer, a lower transparent electrode, and a color filter formed on the upper substrate and above the lower substrate;

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wherein a surface of each color filter has a plurality of <u>curved</u> convex structures, and each of the pixel units respectively comprises a reflection layer positioned between the color filter and the lower substrate.

5 Claim 32 (previously presented): The liquid crystal display of claim 31 wherein the color filter is covered with the upper transparent electrode directly.

Claim 33 (currently amended): The liquid crystal display of claim 31 wherein the surface of each color filter which has the plurality of <u>curved</u> convex structures is able to scatter light.

Claim 34 (currently amended): The liquid crystal display of claim 31 wherein a distribution density of the <u>curved</u> convex structures is used to regulate brightness and a color deepness of the liquid crystal display.

Claim 35 (previously presented): The liquid crystal display of claim 31 being a reflective liquid crystal display.

Claim 36 (previously presented): The liquid crystal display of claim 31 wherein each of the reflection layers includes an opening.

Claim 37 (previously presented): The liquid crystal display of claim 36 being a semi-transmissive and semi-reflective liquid crystal display.

25 Claim 38 (previously presented): The liquid crystal display of claim 31 further comprising a plurality of thin film transistors for respectively controlling each of the pixel units.

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Claim 39 (currently amended): The liquid crystal display of claim 38 wherein the thin film transistors [[is]] are formed on the lower substrate and below the upper substrate.

Claim 40 (new): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a smooth surface.

Claim 41 (new): The liquid crystal display of claim 20 wherein each of the curved convex structures comprises a spherical surface.

10 Claim 42 (new): The liquid crystal display of claim 20 wherein each of the pixel units comprises three of the color filters having a plurality of the curved convex structure respectively.

Claim 43 (new): The liquid crystal display of claim 20 wherein the curved convex structures have non-uniform sizes.

Claim 44 (new): The liquid crystal display of claim 31 wherein each of the curved convex structures comprises a smooth surface.

20 Claim 45 (new): The liquid crystal display of claim 31 wherein each of the curved convex structures comprises a spherical surface.

Claim 46 (new): The liquid crystal display of claim 31 wherein each of the pixel units comprises three of the color filters having a plurality of the curved convex structure respectively.

Claim 47 (new): The liquid crystal display of claim 31 wherein the curved convex structures have non-uniform sizes.